

# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/446.545	03/16/2001	Juergen Kockmann	P99,2690	2480
29177 73	590 02/24/2003			
BELL, BOYD & LLOYD, LLC			EXAMINER	
P. O. BOX 113 CHICAGO, IL		WAITE, SCOTT A		
			ART UNIT	PAPER NUMBER
			2663	

DATE MAILED: 02/24/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/446,545	KOCKMANN ET AL.			
		Examiner	Art Unit			
		Scott A. Waite	2663			
	The MAILING DATE of this communication app					
Period for Reply						
- Exte after - If the - If NC - Failu - Any I	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1. SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period where to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be till y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from CAUSE the application to become ABANDONE.	mely filed  ys will be considered timely.  The mailing date of this communication.			
1)🖂	Responsive to communication(s) filed on 07 A	A <i>pril 2000</i> .				
2a)□	This action is <b>FINAL</b> . 2b)⊠ Th	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. <b>Disposition of Claims</b>						
4)🖂	Claim(s) 11-20 is/are pending in the applicatio	n.				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
l						
	7)⊠ Claim(s) <u>18</u> is/are objected to.					
	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) 🗀 🧵	The specification is objected to by the Examiner	7.				
10)⊠ The drawing(s) filed on <u>15 <i>March 2001</i></u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) 🔲 🏻	11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.					
	If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.						
Priority u	Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)[	a) All b) Some * c) None of:					
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	<ul> <li>Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
14) 🗌 A	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment						
2) Notice 3) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) 12	5) Notice of Informal P	(PTO-413) Paper No(s) Patent Application (PTO-152)			
I.S. Patent and Tra PTO-326 (Rev		ion Summary	Part of Paper No. 15			

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#### **DETAILED ACTION**

#### **Drawings**

1. Figure 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

### Claim Objections

1. Claim 18 is objected to because of the following informalities: Claim 18 claims claim 18 as a parent claim. Examiner will assume claim 18 was meant to claim claim 16 as the parent claim for examination purposes. Appropriate correction is required.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 11, 13,16 & 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Rohani et al. (USPN 5,390,166).
  - a. As to claims 11, 13, 16 & 20 in Fig. 4 Rohani discloses a time division multiplex duplex method comprising transmission of data during active time slots (Fig. 4, details 41,43,45,47) and no transmission of data during inactive (Fig. 4,

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details 42,44,45,48) time slots and changing of frequency after a time period having an order of magnitude of one time slot. See Col. 3, lines 28 – 67.

### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 12, 15,17 & 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rohani in view of Kockmann et al. (USPN 6,434,183 B1). Rohani discloses all the features of claims 12, 15,17 & 19 except for time duration for an inactive time slot of half an active time slot and also fails to explicitly point out use of the 2.4 GHz band.
  - b. As to claims 12 & 17, in Fig. 4 Kockmann teaches transmission time frames wherein inactive or "guard" time slots Z3, Z6, Z9 are half the duration of the active time slots to provide a maximum number of links. See Col. 6, lines 8 19). Therefore it would have been prima fascia obvious to one of ordinary skill in the art at the time the invention was made to extend the invention of Rohani to include the ration of 2:1 active to inactive timeslots when motivated to provide a maximum number of links.
  - c. As to claims 15 & 19, Kockmann teaches the 2.4 GHz band. Therefore it would have been prima fascia obvious to one of ordinary skill in the art at the

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time the invention was made to extend the invention of Rohani to include the 2.4 GHz band when motivated to use a band well known in the art.

6. Claims 14 & 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rohani in view of Sakoda et al. (US 2001/0043583 A1). Rohani discloses all the features of claims 14 & 18 except for explicitly teaching four active time slots for transmission to the mobile station another four to the fixed station. In Fig. 2C Sakoda teaches four time slots 1, 7, 13 & 19 as reception time slots and four time slots 4,10, 16, & 22 as transmission timeslots for an example wireless telephone system with multiple mobiles. Therefore, it would have been prima fascia obvious to one of ordinary skill in then art at the time the invention was made to extend the invention of Rohani to include four time slots in each direction when motivated to use the present invention in a wireless telephone system with multiple mobiles.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott A. Waite whose telephone number is 703-305-7869. The examiner can normally be reached on Monday-Friday 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on (703) 308-5340. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 308-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

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Scott A. Waite Examiner Art Unit 2663

saw 5 ₩ February 14, 2003

> CHAU NGUYEN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

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